



*Variant: NM\_001130987.2(DYSF):c.3427del (p.Glu1143fs)*

Version: 1.0

[CA1139532918](#) 

[1300184 \(ClinVar\)](#) 

**Gene:** [DYSF \(HGNC:8291\)](#)

**Condition:** [autosomal recessive limb-girdle muscular dystrophy \(MONDO:0015152\)](#)

**Inheritance Mode:** Autosomal recessive inheritance

**UUID:** c4e65916-27fa-4cdf-b33c-32a208d91211

**Approved on:** 2025-06-24

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### *HGVS expressions*

**NM\_001130987.2:c.3427del**

NM\_001130987.2(DYSF):c.3427del (p.Glu1143fs)

NC\_000002.12:g.71589617del

CM000664.2:g.71589617del

NC\_000002.11:g.71816747del

CM000664.1:g.71816747del

NC\_000002.10:g.71670255del

NG\_008694.1:g.140995del

ENST00000698057.1:c.799del

ENST00000698058.1:c.16del

ENST00000698059.1:c.16del

ENST00000258104.8:c.3373del

ENST00000410020.8:c.3427del

ENST00000258104.7:c.3373del

ENST00000394120.6:c.3376del

ENST00000409366.5:c.3376del

ENST00000409582.7:c.3424del

ENST00000409651.5:c.3469del

ENST00000409744.5:c.3334del

ENST00000409762.5:c.3424del

ENST00000410020.7:c.3427del

ENST00000410041.1:c.3427del

ENST00000413539.6:c.3466del

ENST00000429174.6:c.3373del

ENST00000475076.5:n.201del

ENST00000479049.6:n.258del

ENST00000493767.1:n.94del

NM\_001130455.1:c.3376del

NM\_001130976.1:c.3331del

NM\_001130977.1:c.3331del

NM\_001130978.1:c.3373del

NM\_001130979.1:c.3466del

NM\_001130980.1:c.3424del

NM\_001130981.1:c.3424del

NM\_001130982.1:c.3469del

NM\_001130983.1:c.3376del

NM\_001130984.1:c.3334del

NM\_001130985.1:c.3427del  
NM\_001130986.1:c.3334del  
NM\_001130987.1:c.3427del  
NM\_003494.3:c.3373del  
NM\_001130455.2:c.3376del  
NM\_001130976.2:c.3331del  
NM\_001130977.2:c.3331del  
NM\_001130978.2:c.3373del  
NM\_001130979.2:c.3466del  
NM\_001130980.2:c.3424del  
NM\_001130981.2:c.3424del  
NM\_001130982.2:c.3469del  
NM\_001130983.2:c.3376del  
NM\_001130984.2:c.3334del  
NM\_001130985.2:c.3427del  
NM\_001130986.2:c.3334del  
NM\_003494.4:c.3373del

**Pathogenic**

Met criteria codes **3**

PM3 PVS1 PP4\_Strong

Not Met criteria codes **1**

PM2

Evidence Links **0**

Expert Panel

Limb Girdle Muscular Dystrophy VCEP [↗](#)

Criteria Specification Information

[↗](#) **Criteria Specification:** *ClinGen Limb Girdle Muscular Dystrophy Expert Panel Specifications to the ACMG/AMP Variant Interpretation Guidelines for DYSF Version 1.0.0*

[↗](#) **Criteria Specification Approval History**







[↗](#) **Criteria Specifications for this VCEP**

Evidence submitted by expert panel


### ***Limb Girdle Muscular Dystrophy VCEP***

The NM\_003494.4: c.3373del p.(Glu1125LysfsTer9) variant in DYSF, which is also known as NM\_001130987.2: c.3427del p.(Glu1143LysfsTer9), is a frameshift variant predicted to cause a premature stop codon in biologically relevant exon 31/55, leading to nonsense mediated decay in a gene in which loss of function is an established disease mechanism (PVS1). This variant has been reported in at least 12 patients with features of LGMD, including in the homozygous state in at least eight individuals (1.0 pt; PMID: 32400077; 26088049; 2324326; 12410383; LOVD DYSF\_000024; PM3). It appears to be particularly common among Japanese patients with a Miyoshi myopathy phenotype. At least one of the patients homozygous for this variant displayed absent dysferlin protein expression in skeletal muscle in addition to a clinical diagnosis of LGMD, which is highly specific for DYSF-related LGMD (PMID: 12410383; PP4\_Strong). The filtering allele frequency of this variant is 0.00023 in gnomAD v4.1.0 exomes (the upper threshold of the 95% CI of 4/39700 East Asian chromosomes), which is greater than the ClinGen LGMD VCEP threshold for PM2\_Supporting ( $\leq 0.0001$ ) (PM2\_Supporting not met). In summary, this variant meets the criteria to be classified as Pathogenic for autosomal recessive limb girdle muscular dystrophy based on the ACMG/AMP criteria applied, as specified by the ClinGen LGMD VCEP (LGMD VCEP specifications version 1.0.0; 06/24/2025): PVS1, PM3, PP4\_Strong.

Met criteria codes

<b>PM3</b>	 	This variant has been reported in at least 12 patients with LGMD, including in the homozygous state in at least eight individuals (1.0 pt; PMID: 32400077; 26088049; 2324326; 12410383; LOVD DYSF_000024; PM3). It appears to be particularly common among Japanese patients with a Miyoshi myopathy phenotype.
<b>PVS1</b>	 	The NM_003494.4: c.3373del p.(Glu1125LysfsTer9) variant in DYSF, which is also known as NM_001130987.2: c.3427del p.(Glu1143LysfsTer9), is a frameshift variant predicted to cause a premature stop codon in biologically relevant exon 31/55, leading to nonsense mediated decay in a gene in which loss of function is an established disease mechanism (PVS1).
<b>PP4_Strong</b>	 	At least one of the patients homozygous for this variant displayed absent dysferlin protein expression in skeletal muscle in addition to a clinical diagnosis of LGMD, which is highly specific for DYSF-related LGMD (PMID: 12410383; PP4_Strong).

#### Not Met criteria codes

<b>PM2</b>		The filtering allele frequency of this variant is 0.00023 in gnomAD v4.1.0 exomes (the upper threshold of the 95% CI of 4/39700 East Asian chromosomes), which is greater than the ClinGen LGMD VCEP threshold for PM2_Supporting ( $\leq 0.0001$ ) (PM2, BA1, BS1 not met).
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#### Curation History [↗](#)

Showing 1 to 1 of 1 rows

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